



#140  
KAY  
10-25-02

Attorney Docket No. 44342.010400

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: MATSUYAMA, S., et al

SERIAL NO.: 09/913,521

Group Art Unit: 1635

FILED: August 13, 2001

Examiner: ANGELL, Jon E.

FOR: CHAIN-SHORTENED POLYNUCLEOTIDE AND METHOD FOR  
PREPARATION THEREOF

TECH CENTER 1600/2900

RECEIVED  
OCT 23 2002

AMENDMENT AND RESPONSE UNDER 37 CFR 1.111

In response to the USPTO Official Action mailed on July 10, 2002, please amend the above identified application as follows:

In the Claims

Please amend claims 1, 18 and 27 as follows:

1. (Amended) A chain-shortened polynucleotide or salt thereof, comprising phosphodiester bonds, wherein from about 0.1 percent to 3 percent of the phosphodiester bonds are 2'-5' phosphodiester bonds.

18. (Amended) A composition comprising a complex formed from a carrier effective for introducing a medicament into a cell and a chain-shortened polynucleotide or salt thereof as an essential ingredient, wherein the chain-shortened polynucleotide or salt thereof comprises phosphodiester bonds, such that from about 0.1 percent to 3 percent of the phosphodiester bonds are 2'-5' phosphodiester bonds.

27. (Amended) A method for preparing a polynucleotide or salt thereof in which the proportion of a 2'-5' phosphodiester bond is up to 3% based on the total phosphodiester bonds and the average chain length is between 0.1 k bases and 1 k bases